

CLAIMS

What is claimed is:

- 1 1. A continuously blockable arresting device, comprising:
2 a housing defining a working space and first and second subchambers;
3 a shaft having an end received in said housing and being rotatable about
4 a longitudinal axis in response to a force acting on said shaft from outside of the
5 housing;
6 a swash plate arranged on said shaft such that said swash plate rotates
7 and wobbles when said shaft is rotated;
8 first and second pistons respectively displaceably arranged in said first
9 and second chambers, said first and second pistons being operatively displaceable in
10 said first and second chambers in response to rotation of said swash plate; and
11 a first control device arranged between said first subchamber and said
12 working space and a second control device arranged between said second subchamber
13 and said working space, each of said first and second control devices including a
14 blocking valve for respectively connecting a flow from said first and second
15 subchambers to said working space and a passage valve for respectively connecting a
16 flow from the working space to said first and second subchambers.
- 1 2. The continuously blockable arresting device of claim 2, wherein
2 said blocking valves comprise spring-loaded non-return valves.

1 3. The continuously blockable arresting device of claim 2, wherein
2 said blocking valve of said first control device opens to allow flow toward said second
3 subchamber and said blocking valve of said second control device opens to allow flow
4 toward said first subchamber.

1 4. The continuously blockable arresting device of claim 2, wherein
2 said passage valves of said first and second control devices comprise non-return
3 valves.

1 5. The continuously blockable arresting device of claim 1, wherein
2 said passage valves of said first and second control devices comprise non-return
3 valves.

1 6. The continuously blockable arresting device of claim 1, wherein
2 said first and second subchambers are connected to each other by a passage defined
3 in said working space.

1 7. The continuously blockable arresting device of claim 1, wherein
2 said first and second pistons are connected to said swash plate by a form-fitting
3 connection.

1 8. The continuously blockable arresting device of claim 7, wherein
2 said first and second pistons have ends facing said swash plate, said ends having a
3 shape comprising one of a spherical or conical shape, said swash plate having a
4 receptacle for receiving each of said ends to make the form-fitting connection.

1 9. The continuously blockable arresting device of claim 1, further
2 comprising springs for prestressing said first and second pistons against said swash
3 plate.

1 10. The continuously blockable arresting device of claim 9, wherein
2 said spring comprises one of a helical spring and a disc spring.

1 11. The continuously blockable arresting device of claim 9, wherein
2 said first and second control devices respectively support said springs arranged in said
3 first and second subchambers.

1 12. The continuously blockable arresting device of claim 1, wherein
2 said first and second pistons are arranged at an angular spacing of 180° on said swash
3 plate.

1 13. The continuously blockable arresting device of claim 1, further
2 comprising an actuating element connected to said shaft, said actuating element
3 receiving a force acting on said shaft and said shaft being rotatable by said actuating
4 element.

1 14. The continuously blockable arresting device of claim 1, further
2 comprising a gear mechanism arranged between said shaft and said swash plate or
3 between said actuating element and said swash plate.

1 15. The continuously blockable arresting device of claim 14, wherein
2 said gear mechanism comprises a step-up gear mechanism.

1 16. The continuously blockable arresting device of claim 1, wherein
2 said shaft is connectable to a part external to said arresting device that is to be pivoted
3 about a pivot axis, said shaft being arrangeable coaxially with the pivot axis of the part
4 or parallel to the pivot axis.

1 17. The continuously blockable arresting device of claim 1, wherein
2 said working space contains a volume of gas arranged therein on a side of said working
3 space facing away from said first and second pistons.

1 18. The continuously blockable arresting device of claim 17, further
2 comprising a membrane arranged between the fluid and the volume of gas in said
3 working space.